

## Product datasheet for RN207477

### Fbl (NM\_001025643) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fbl (NM_001025643) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fbl
Synonyms:	MGC116371
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN207477 representing NM_001025643 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCCAGGTTTCAGCCCCGTGGGGCGGCTTTGGTGGCAGAGGCGGCTTTGGTGACAGAGGTGGTA  
GAGGAGGAGGCCGAGGAGGGAGAGGTTTGGCGGTGGACGAGGAGGCTTTGGCGGTGGAGGTCGAGG  
TCGAGGTGGAGGAGGCGGTGGCTTCAGGGGACGAGGAGGTGGAGGTGGACGAGGTGGAGGCTTCCAGTCT  
GGGGCGGCCGGGTGCGAGGTGGTGGCCGGGAGGCAAGAGAGAAACCAGTCAGGAAGAATGTGATGG  
TGGAGCCCATCGGCATGAAGGAGTCTTATCTGTGCGGAAAGGAGGATGCCCTTGTCACAAAGAATCT  
GGTTCTGGAGAATCTGTGTATGGAGAGAAGAGAGTCTCTATCTCCGAAGGAGATGACAAAATTGAGTAC  
CGAGCCTGGAACCCCTTCCGCTCCAAGCTGGCCGAGCAATCCTGGGTGGCGTAGACCAGATCCACATCA  
AGCCGGGGGCCAAGGTGCTCTACCTTGGGGCAGCCTCAGGCACCACCGTCTCCCACGTGTCTGACATTGT  
TGGCCCGGATGGTCTGGTCTACGCAGTTGAGTTCTCCACCGCTCTGGCCGTGACCTCATCAACTGGCC  
AAGAAGAGGACCAACATTATTCTGTAATTGAAGATGCTCGGCACCCACACAAATACCGCATGCTTATTG  
CAATGGTGGATGTCATCTTTGCCGATGTGGCCAGCCAGACCAACCCGAATTGTGGCCCTGAATGCCCA  
CACCTTCTGCGAATGGAGGACACTTTGTGATTTCCATTAAGGCCAACTGCATTGACTCCACAGCCTCA  
GCAGAAGCTGTGTTTGCATCTGAAGTGAAGAAGATGCAGCAAGAGAACATGAAGCCTCAGGAGCAGTTGA  
CACTAGAGCCTTATGAACGAGACCACGCTGTGGTTGTAGGTGTGTACAGGCCACCTCCCAAGGCCAAGAA  
CTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001025643
<b>Insert Size:</b>	984 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001025643.1</a></u> , <u><a href="#">NP_001020814.1</a></u>
<b>RefSeq Size:</b>	1208 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	292747
<b>UniProt ID:</b>	<u><a href="#">P22509</a></u>
<b>Cytogenetics:</b>	1q21
<b>Gene Summary:</b>	S-adenosyl-L-methionine-dependent methyltransferase that has the ability to methylate both RNAs and proteins. Involved in pre-rRNA processing by catalyzing the site-specific 2'-hydroxyl methylation of ribose moieties in pre-ribosomal RNA. Site specificity is provided by a guide RNA that base pairs with the substrate. Methylation occurs at a characteristic distance from the sequence involved in base pairing with the guide RNA. Also acts as a protein methyltransferase by mediating methylation of 'Gln-105' of histone H2A (H2AQ104me), a modification that impairs binding of the FACT complex and is specifically present at 35S ribosomal DNA locus (By similarity).[UniProtKB/Swiss-Prot Function]